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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/855,818	05/15/2001	Gerald R. Malan	UOM0206PUSP	9686
7590 08/21/2006			EXAMINER	
David R. Syrowik			PYZOCHA, MICHAEL J	
Brooks & Kush			ADTIBUT	PAPER NUMBER
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Southfield, MI 48075-1351			2137	

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	09/855,818	MALAN ET AL.		
Office Action Summary	Examiner	Art Unit		
	Michael Pyzocha	2137		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	L. lely filed the mailing date of this communication. D. (35 U.S.C. § 133).		
Status				
 1) ⊠ Responsive to communication(s) filed on 13 Ju 2a) ⊠ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-4,7-12,15 and 16 is/are pending in t 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,7-12,15 and 16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to by the Examiner Replacement drawing sheet(s) including the correction and the objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 12. **The oath of the content of the objected to by the Examiner 13. **The oath of the objected to by the Examiner 14. **The oath of the objected to by the Examiner 15. **The objected to by the Examiner 16. **The objected to by the Examiner 17. **The oath of the objected to by the Examiner 18. **The objected to by the Examiner 19. **The oath of the objected to by the Examiner 19. **The oath of the objected to by the Examiner 11. **The oath of the objected to by the Examiner 11. **The oath of the objected to by the Examiner 11. **The oath of the objected to by the Examiner 11. **The oath of the objected to by the Examiner 11. **The oath of the objected to by the Examiner 11. **The oath of the objected to by the Examiner 11. **The oath of the objected to by the Examiner 12. **The objected to by the Examiner 13. **The objected to by the Examiner 14. **The objected to by the Examiner 14. **The objected to by the Examiner 15. **The objected to by the Examiner 16. **The objected to by the Examiner 17. **The objected to by the Examiner 18. **The objected to by the Examiner 19. **The object	epted or b) objected to by the lidrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

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DETAILED ACTION

1. Claims 1-4, 7-12, 15, and 16 are pending.

2. Amendment filed 07/13/2006 has been received and considered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-4 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato et al ("A Real-Time Intrusion Detection System (IDS) for Large Scale Networks and Its Evaluations), (hereinafter Kato) pages 1817-1825 in view of Dutta et al (US 6826694).

As per claims 1 and 9, Kato discloses a method for protecting publicly accessible network computer services from undesirable network traffic in real-time, the method comprising: receiving network traffic including a stream of service requests destined for the publicly accessible network computer services

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(page 1817, col. 2, paragraph 5; Page 1818, paragraphs 2-3, 5); generating request statistics including connection statistics and service and service request distributions based on the stream of service requests (page 1817, col. 2, paragraphs 2-3; page 1820, col. 2, paragraph 1); analyzing the request statistics to identify an undesirable user of the services (page 1817, col. 2, paragraphs 2, 3; page 1818, col. 1, paragraph 1; page 1820, col. 2, paragraph 1); and limiting or removing access of the identified undesirable user to the services to protect the services (page 1817, col. 2, paragraph 5; page 1821, Col. 2 paragraph 1).

Kato fails to disclose the request statistics including content of the network traffic and comprising at least one of: size of a request and a reply to the request: request payload: number of fragments in the request: and request content anomalies and analyzing the content of the request.

However, Dutta et al teaches analyzing request statistics including content of the network traffic and comprising at least one of: size of a request and a reply to the request: request payload: number of fragments in the request: and request content anomalies and analyzing the content of the request (see column 3 lines 9-30).

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At the time of the invention it would have been obvious to a person of ordinary skill in the art to analyzing request statistics including content of the network traffic and comprising at least one of: size of a request and a reply to the request: request payload: number of fragments in the request: and request content anomalies and analyzing the content of the request in the Kato system.

Motivation to do so would have been to analyze information not provided in the header (see Dutta et al column 3 lines 9-30).

As per claims 2 and 10, the modified Kato and Dutta et al system discloses a method wherein the undesirable network traffic includes denial of service attacks (see Kato page 1818, Col. 1, paragraph 6-col. 2, paragraph 2).

As per claims 3 and 11, the modified Kato and Dutta et al system discloses a method wherein the network is the Internet (see Kato Figure 1; page 1817, col. 2, paragraph 5).

As per claims 4 and 12, the modified Kato and Dutta et al system discloses a method comprising generating one or more user profiles from the request statistics wherein the step of analyzing includes the step of comparing the one or more user profiles with a predetermined profile to determine the

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undesirable user (see Kato page 1817, col. 1, paragraph 1; page 1821, col. 2, paragraph 1).

5. Claims 7, 8, 15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Kato and Dutta et al system as applied to claims 1 and 9 above, and further in view of Smith, R. N. et al. (hereinafter Smith) ("Operating Firewalls Outside the LAN Perimeter").

As per claims 7 and 15, the modified Kato and Dutta et al system teaches receiving network traffic including a stream of service requests where the network is the Internet and generating request statistics based on the stream of service requests as discussed above. The modified Kato and Dutta et al system does not explicitly disclose of generating request statistics includes the steps of collecting and correlating Border Gateway Protocol (BGP) data from the Internet to obtain the service request distributions. However, Smith teaches such a limitation (see Page 497, Col. 1, Paragraph 2; and Col. 2, Paragraph 2).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the method disclosed by Kato to include generating request statistics includes the steps of collecting and correlating Border Gateway Protocol (BGP) data from the Internet

to obtain the service request distributions. This modification would have been obvious because a person having ordinary skill in the art would have been motivated in order to implement filtering function of packets and determine hope count when routing a packet (page 497, col. 1, paragraphs 1-2; Smith).

As per claims 8 and 16, the modified Kato, Dutta et al, and Smith system discloses a method wherein the step of correlating includes the step of identifying a topologically clustered set of machines in the Internet based on the data and wherein the service request distributions are generated from the set of machines (see Kato Figures 8 and 9; page 1820, col. 2 paragraph 2-page 1821, col. 1).

6. Claims 1 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belissent (US 6789203) in view of Dutta et al.

As per claims 1 and 9, Belissent discloses a method for protecting publicly accessible network computer services from undesirable network traffic in real-time, the method comprising: receiving network traffic including a stream of service requests destined for the publicly accessible network computer services (Col. 2, lines 55-56; Col. 4, lines 15-17); generating request statistics including connection statistics and service request distributions based on the stream of service requests (Col. 2, lines 55-59., Col. 4, lines 18-19); analyzing the request

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statistics to identify an undesirable user of the services (Col. 2, lines 59-65; Col. 4, lines 18-20); and limiting or removing access of the identified undesirable user to the services to protect the services (col. 5, lines 45-51);

Belissent fails to disclose the request statistics including content of the network traffic and comprising at least one of: size of a request and a reply to the request: request payload: number of fragments in the request: and request content anomalies and analyzing the content of the request.

However, Dutta et al teaches analyzing request statistics including content of the network traffic and comprising at least one of: size of a request and a reply to the request: request payload: number of fragments in the request: and request content anomalies and analyzing the content of the request (see column 3 lines 9-30).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to analyzing request statistics including content of the network traffic and comprising at least one of: size of a request and a reply to the request: request payload: number of fragments in the request: and request content anomalies and analyzing the content of the request in the Belissent system.

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Motivation to do so would have been to analyze information not provided in the header (see Dutta et al column 3 lines 9-30).

Response to Arguments

7. Applicant's arguments with respect to claims 1 and 9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Roberts et al (US 6295551) discloses analyzing payload data of a request.
- 9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened

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statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pyzocha whose telephone number is (571) 272-3875. The examiner can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MJP

